

Active Recombinant Human TPI1 Protein, His-tagged

Cat. No. TPI1-10H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPI enzyme (active) with a N-terminal His-tag was produced in <i>Nicotiana benthamiana</i> by Agrobacterium-mediated transient expression.
Species	Human
Source	<i>Nicotiana Benthamiana</i>
Description	This gene encodes an enzyme, consisting of two identical proteins, which catalyzes the isomerization of glyceraldehydes 3-phosphate (G3P) and dihydroxy-acetone phosphate (DHAP) in glycolysis and gluconeogenesis. Mutations in this gene are associated with triosephosphate isomerase deficiency. Pseudogenes have been identified on chromosomes 1, 4, 6 and 7. Alternative splicing results in multiple transcript variants.
Form	Lyophilized
Bio-activity	Active. >1000 mU/mg. Measuring the conversion of dihydroxyacetone phosphate (DHAP) to glyceradehyde-3-phosphate (GAP).
Molecular Mass	54 kDa dimer (2x 27 kDa subunits)
Purity	>99%
Applications	SDS-PAGE, Western Blot, functional assays

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade.
It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer 20 mM Tris-HCl, pH 7.5, 175 mM Trehalose Dihydrate and 0.9 mM DTT.

GENE INFORMATION

Gene Name TPI1 triosephosphate isomerase 1 [Homo sapiens (human)]

Official Symbol TPI1

Synonyms TPI1; triosephosphate isomerase 1; TIM; TPI; TPID; HEL-S-49; triosephosphate isomerase; epididymis secretory protein Li 49; methylglyoxal synthase; triose-phosphate isomerase; EC 4.2.3.3; EC 5.3.1.1

Gene ID 7167

mRNA Refseq NM_000365

Protein Refseq NP_000356

MIM 190450

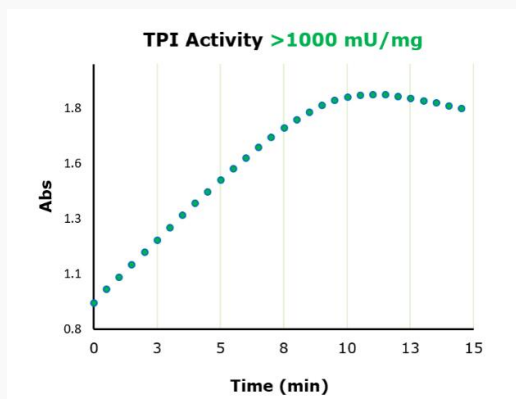
UniProt ID P60174

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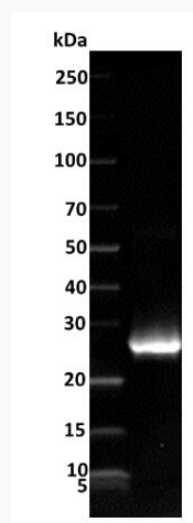
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Activity



Latter stage of TPI activity assay showing linear change in absorption (450 nm) over 15 minutes up until reaction saturation.

SDS-PAGE



Reducing 4-20% SDS-PAGE analysis of 5 µg TPI.

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